

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-20. (Canceled)

21. (Currently amended) An energy collecting system, comprising:

a heat storage;

a heat source for making water filled in said heat storage cool or warm;

a pump for supplying said water filled in said heat storage to said heat source;

a first water supply pipe disposed between a discharge outlet of said pump and said heat source;

a second water supply pipe disposed between a discharge outlet of said heat source and said heat storage;

a waterwheel provided with said second water supply pipe;

an AC (alternating current) electric power generator driven by said waterwheel to generate AC electric power;

an inverter directly connected to an output of said AC electric power generator to receive and convert said AC electric power to DC electric power and to make controlling said AC electric power generator output for converting said AC electric power generated by said AC electric power generator to AC electric power of in a desired voltage and a desired frequency;
and

a system collaboration unit for supplying AC electric power supplied from a commercial power source to a load,

wherein said load is supplied with said AC electric power supplied from said inverter.

22. (Previously presented) An energy collecting system according to Claim 21, comprising:

- a bypass pipe and a bypass valve for bypassing said waterwheel; and
- pressure sensors disposed at an inlet and an outlet of said water wheel.

23. (Previously presented) An energy collecting system, comprising:

- a heat storage;
- a heat source for making water filled in said heat storage cool or warm;
- a pump for supplying said water filled in said heat storage to said heat source;
- a first water supply pipe disposed between a discharge outlet of said pump and said heat source;
- a second water supply pipe disposed between a discharge outlet of said heat source and said heat storage;
- a waterwheel provided with said second water supply pipe;
- an AC (alternating current) electric power generator driven by said waterwheel to generate AC electric power;
- an inverter controlling said AC electric power generator for converting said AC electric power generated by said AC electric power generator to AC electric power of a desired voltage and a desired frequency;
- a system collaboration unit for supplying AC electric power supplied from a commercial power source to said heat source;
- a cable for connecting an electric path between said system collaboration unit and said heat source to an output port of said inverter;
- a bypass pipe and a bypass valve bypassing said waterwheel; and
- pressure sensors disposed at an inlet and an outlet of said water wheel,

wherein said heat source is driven by AC electric power obtained by adding the power generated by said waterwheel to the power of said commercial power source.

24. (Previously presented) An energy collecting system, comprising:

- a heat storage;
- a heat source for making water filled in said heat storage cool or warm;
- a pump for supplying said water filled in said heat storage to said heat source;
- a first water supply pipe disposed between a discharge outlet of said pump and said heat source;
- a second water supply pipe disposed between a discharge outlet of said heat source and said heat storage;
- a waterwheel provided with said second water supply pipe;
- an AC (alternating current) electric power generator driven by said waterwheel to generate AC electric power;
- an inverter controlling said AC electric power generator for converting said AC electric power generated by said AC electric power generator to AC electric power of a desired voltage and a desired frequency;
- an AC electric power change-over unit for changing a system from a commercial power source to a load side when power is not being generated, and changing from said AC electric power generator to a load side when power is being generated;
- a bypass pipe and a bypass valve bypassing said waterwheel; and
- pressure sensors disposed at an inlet and an outlet of said water wheel,

wherein said AC electric power generated by said AC electric power generator is supplied to a load such as a lighting apparatus in a machine room.